



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/619,764	07/15/2003	Kenneth L. Justice	LEEE 2 00309	8797
7590	09/29/2004		EXAMINER	
Fay, Sharpe, Fagan, Minnich & McKee, LLP 7th Floor 1100 Superior Avenue Cleveland, OH 44114-2579			GUSHI, ROSS N	
			ART UNIT	PAPER NUMBER
			2833	

DATE MAILED: 09/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/619,764

Applicant(s)

JUSTICE, KENNETH L.

Examiner

Ross N. Gushi

Art Unit

2833

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 August 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2,7-21 and 23-64 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,7-21 and 23-64 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

ROSS GUSHI
PRIMARY EXAMINER

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Applicant's Appeal Brief filed 8/30/04 has been considered and prosecution is reopened.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 2, 7, 14, 16, 18, 19, 21, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art in view of Ellis et al. ("Ellis") and Liao, Haag, and Chow et al. ("Chow"). Regarding claims 1, 21, the admitted prior art ("APA") discloses everything except that the joining cavity does not engage the outer threaded surface of said cable connection sleeve after a majority of said electrical coupling cavity is at least partially telescopically inserted in said cable connection sleeve. Ellis discloses a connector where the locking member 100 engages the outer threaded surface 34 of a cable connection sleeve after the mating members (80, 40) are fully engaged and the connectors (128, 48) are connected. At the time of the invention, it would have been obvious to increase the longitudinal sliding play distance of the coupling sleeve 120 of the admitted prior art such that the sleeve would not engage the outer threaded surface 34 of a cable connection sleeve until after a majority of said electrical coupling cavity was at least partially telescopically inserted in said cable connection sleeve and the connectors (128, 48) were connected. Ellis teaches that this

would have been done by increasing the distance between the front stopping flange (88 in Ellis, 70 in the APA) and the rear stop (face 158 in Ellis, face of flange 38 in the APA). The suggestion or motivation for doing so would have been to allow quicker engaging and disengaging of the mating parts as taught in Ellis and as is well known in the art.

Regarding the gripping features, the APA shows gripping surfaces 122. Liao (see ribs 21 on ring 20), Haag (see finger tabs 72 on sleeve 54), and Chow (see gripping rings on coupling ring 26) are examples of connectors disclosing a plurality of "nodes" in a star shape to facilitate manual rotation. At the time of the invention, it would have been obvious to modify the APA gripping surface to include various gripping design features including "nodes" in a star shape as taught in Liao, Haag and Chow. The suggestion or motivation for doing so would have been to provide a good grip and facilitate rotation, as taught by Liao (col. 2, lines 40-45), Haag (col. 6, lines 65-67) and Chow and as is well known in the art.

Regarding claims 2, 14, 16, 18, 19, 23, the APA discloses these limitations.

Regarding claims 7, the APA does not disclose that at least one-thread in said joining cavity of said coupling sleeve is spaced from a receiving end of said joining cavity. Ellis discloses that at least one-thread in the joining cavity of the coupling sleeve is spaced from a receiving end of said joining cavity. At the time of the invention, it would have been obvious to modify the APA such that at least one-thread in the joining cavity of the coupling sleeve would have been spaced from a receiving end of said joining cavity as taught in Ellis. The suggestion or motivation for doing so would have been to prevent damage to the threads and ensure that the threaded mating parts

Art Unit: 2833

were properly oriented before engaging the mating threads, such motivation being known in the art.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art in view of Ellis and Liao, Haag and Chow as discussed above in view of Herrmann, Jr. ("Herrmann"). The APA does not disclose that the receiving end of said joining cavity has a beveled surfaced designed to-receive a front end of said cable connection sleeve. Herrmann discloses that the receiving end of a joining cavity has a beveled surfaced designed to-receive a front end of said cable connection sleeve (see figure 5). At the time of the invention, it would have been obvious to bevel the receiving end of the APA joining cavity. The suggestion or motivation for doing so would have been to facilitate mating of the mating sleeves, as is well known in the art.

Claims 8 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art in view of Ellis, Herrmann, Liao, Haag and Chow for the reasons discussed regarding claims 9 and 4.

Claims 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art in view of Ellis, Liao, Haag and Chow as in claim 7 in view of Glover. The APA does not show at least a majority of said electrical coupling cavity extending outwardly from said receiving end of said joining cavity. Glover discloses a majority of an electrical coupling cavity extending outwardly from a receiving end of a joining cavity. At the time of the invention, it would have been obvious to extend the APA coupling cavity as desired, such as disclosed in Glover. The suggestion or motivation for doing

so would have been to allow facilitate mating of the electrical connectors prior to locking the connectors together, as taught in Glover and as is well known in the art.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art in view of Ellis, Liao, Haag, Chow, Herrmann, and Glover for the reasons discussed regarding claims 9 and 11.

Claims 13, 15, 17, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art in view of Ellis, Herrmann, Liao, Haag, Chow and Glover for the reasons discussed regarding claims 9, 10, 11, 14, 16, 18, and 19.

Claims 23-64 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art in view of Ellis, Herrmann, Liao, Haag, Chow and Glover for the reasons discussed regarding claims 1-21. Regarding claims 44-63, the method of using the devices discussed regarding claims 1-21 would have been obvious at the time of the invention.

Response to Arguments

Applicant's arguments presented in the Appeal Brief filed 8/30/04 have been considered but are moot in view of the new grounds of rejection.

Conclusion

In view of the new grounds of rejection, prosecution is reopened and this action is non-final.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ross Gushi whose telephone number is (571) 272-2005. If attempts to reach the examiner by phone are unsuccessful, the examiner's

Art Unit: 2833

supervisor, Paula A. Bradley, can be reached at 571-272-2800 extension 33. The phone number for the Group's facsimile is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



ROSS GUSHI
PRIMARY EXAMINER